

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) **EP 0 717 446 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 02.06.1999 Bulletin 1999/22

(51) Int. Cl.⁶: H01L 27/15

(43) Date of publication A2: 19.06.1996 Bulletin 1996/25

(21) Application number: 95119100.6

(22) Date of filing: 05.12.1995

(84) Designated Contracting States: DE FR GB

(30) Priority: 14.12.1994 US 355742

(71) Applicant: EASTMAN KODAK COMPANY Rochester, New York 14650 (US)

(72) Inventors:

Tang, Ching Wan,
 c/o Eastman Kodak Company
 Rochester, New York 14650-2201 (US)

Hseih, Blay Cheng,
 c/o Eastman Kodak Company
 Rochester, New York 14650-2201 (US)

(74) Representative:
Reichert, Werner F., Dr. rer.nat., Dipl.-Phys.
Kodak Aktlengesellschaft,
Patent Department
70323 Stuttgart (DE)

(54) TFT-EL display panel using organic electroluminiscent media

(57) A flat panel display comprising thin-film-transistor-electroluminescent (TFT-EL) pixels is described. An addressing scheme incorporating two TFTs and a storage capacitor is used to enable the EL pixels on the panel to operate at a duty factor close to 100%. This TFT-EL device eliminates the need to pattern the EL

cathode, thus greatly simplifying the procedure to delineate the EL pixels as well as ensuring high resolution. The TFT-EL panel consumes less power than conventional TFT-LCD panels, especially when the usage factor of the screen is less than unity.

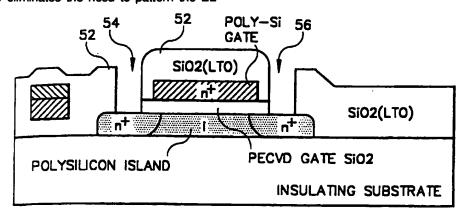


FIG. 5



EUROPEAN SEARCH REPORT

Application Number

EP 95 11 9100

Category	Citation of document with ind of relevant passa				CLASSIFICATION OF THE APPLICATION (Int.C1.6)	
Α	PATENT ABSTRACTS OF vol. 095, no. 002, 3 -& JP 06 325869 A (CORP), 25 November 1 * abstract *	JAPAN 1 March 1995 MITSUBISHI KAS	1	o olam	H01L27/15 G09G3/32	
D,A	US 4 042 854 A (LUO 16 August 1977 * abstract; figures		AL) 1			
A	EP 0 365 445 A (EAST 25 April 1990 * abstract; figures		1			
D,A	EP 0 553 496 A (EAST 4 August 1993 * abstract; figures -		1			
					TECHNICAL SEARCHED	FIELDS (Int.Cl.6)
					H01L G09G	
	The present search report has be	een drawn up for all cla	ims		!	
	Place of search	Date of completion		T	Examiner	~
	THE HAGUE	14 April	1999	De	Laere, A	
X : part Y : part doct A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another unent of the same category inological background -written disclosure mediate document	E: D: L: &:	theory or principle un earlier patent docum after the filling date document cited in the document cited for of member of the same document	ent, but publication her reasons	ished on, or	

EPO FORM 1503 03.82 (P04C01)

.

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 95 11 9100

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on

The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

14-04-1999

Patent document cited in search repo		Publication date	Patent family member(s)		Publication date	
US 4042854	Α	16-08-1977	DE	2652296 A	26-05-1977	
			FR	2332585 A	17-06-1977	
			GB	1563243 A	19-03-1980	
			JP	52064891 A	28-05-1977	
			NL	7612128 A	24-05-1977	
			US	4135959 A	23-01-1979	
EP 0365445	Α	25-04-1990	US	4996523 A	26-02-1991	
	• • •		DE	68914389 D	11-05-1994	
			DE	68914389 T	13-10-1994	
			JP	2148687 A	07-06-1990	
			JP	2729089 B	18-03-1998	
EP 0553496	A	04-08-1993	US	5276380 A	04-01-1994	
		0. 00 2000	CA	2085298 A	01-07-1993	
			DE	69217475 D	27-03-1997	
			DE	69217475 T	28-08-1997	
			ĴΡ	5275172 A	22-10-1993	

FORM POAS9

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82